



# Sequence Listing

<110> Brunetta, Paul G.  
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<120> THERAPY OF NON-MALIGNANT DISEASES OR DISORDERS WITH  
ANTI-ERBB2 ANTIBODIES

<130> P1979R1

<140> US 10/719,310

<141> 2003-11-21

<150> US 60/428,027

<151> 2002-11-21

<160> 22

<210> 1

<211> 107

<212> PRT

<213> Mus Musculus

<400> 1

Asp	Thr	Val	Met	Thr	Gln	Ser	His	Lys	Ile	Met	Ser	Thr	Ser	Val
1				5					10				15	

Gly	Asp	Arg	Val	Ser	Ile	Thr	Cys	Lys	Ala	Ser	Gln	Asp	Val	Ser
				20					25				30	

Ile	Gly	Val	Ala	Trp	Tyr	Gln	Gln	Arg	Pro	Gly	Gln	Ser	Pro	Lys
				35					40				45	

Leu	Leu	Ile	Tyr	Ser	Ala	Ser	Tyr	Arg	Tyr	Thr	Gly	Val	Pro	Asp
				50					55				60	

Arg	Phe	Thr	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Phe	Thr	Ile
				65					70				75	

Ser	Ser	Val	Gln	Ala	Glu	Asp	Leu	Ala	Val	Tyr	Tyr	Cys	Gln	Gln
				80					85				90	

Tyr	Tyr	Ile	Tyr	Pro	Tyr	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Glu
				95					100				105	

Ile Lys

<210> 2

<211> 119

<212> PRT

<213> Mus musculus

<400> 2

Glu	Val	Gln	Leu	Gln	Gln	Ser	Gly	Pro	Glu	Leu	Val	Lys	Pro	Gly	1	5	10	15
Thr	Ser	Val	Lys	Ile	Ser	Cys	Lys	Ala	Ser	Gly	Phe	Thr	Phe	Thr	20	25	30	
Asp	Tyr	Thr	Met	Asp	Trp	Val	Lys	Gln	Ser	His	Gly	Lys	Ser	Leu	35	40	45	
Glu	Trp	Ile	Gly	Asp	Val	Asn	Pro	Asn	Ser	Gly	Gly	Ser	Ile	Tyr	50	55	60	
Asn	Gln	Arg	Phe	Lys	Gly	Lys	Ala	Ser	Leu	Thr	Val	Asp	Arg	Ser	65	70	75	
Ser	Arg	Ile	Val	Tyr	Met	Glu	Leu	Arg	Ser	Leu	Thr	Phe	Glu	Asp	80	85	90	
Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Arg	Asn	Leu	Gly	Pro	Ser	Phe	Tyr	95	100	105	
Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Thr	Leu	Thr	Val	Ser	Ser	110	115			

<210> 3

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> sequence is synthesized

<400> 3

Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	1	5	10	15
Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Lys	Ala	Ser	Gln	Asp	Val	Ser	20	25	30	
Ile	Gly	Val	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	35	40	45	
Leu	Leu	Ile	Tyr	Ser	Ala	Ser	Tyr	Arg	Tyr	Thr	Gly	Val	Pro	Ser	50	55	60	
Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	65	70	75	
Ser	Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	80	85	90	
Tyr	Tyr	Ile	Tyr	Pro	Tyr	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	95	100	105	
Ile	Lys																	

<210> 4  
 <211> 119  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> sequence is synthesized

<220>  
 <221> artificial  
 <222> 1-119  
 <223> Fab 574 VH

<400> 4  
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly  
           1                  5                  10                  15  
 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Thr  
                           20                  25                  30  
 Asp Tyr Thr Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu  
                           35                  40                  45  
 Glu Trp Val Ala Asp Val Asn Pro Asn Ser Gly Gly Ser Ile Tyr  
                           50                  55                  60  
 Asn Gln Arg Phe Lys Gly Arg Phe Thr Leu Ser Val Asp Arg Ser  
                           65                  70                  75  
 Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp  
                           80                  85                  90  
 Thr Ala Val Tyr Tyr Cys Ala Arg Asn Leu Gly Pro Ser Phe Tyr  
                           95                  100                  105  
 Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
                           110                  115

<210> 5  
 <211> 107  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> sequence is synthesized

<400> 5  
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
           1                  5                  10                  15  
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser  
                           20                  25                  30  
 Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys  
                           35                  40                  45

Leu Leu Ile Tyr Ala Ala Ser Ser Leu Glu Ser Gly Val Pro Ser  
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile  
65 70 75

Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln  
80 85 90

Tyr Asn Ser Leu Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu  
95 100 105

Ile Lys

<210> 6

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<223> sequence is synthesized

<400> 6

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly  
1 5 10 15

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser  
20 25 30

Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu  
35 40 45

Glu Trp Val Ala Val Ile Ser Gly Asp Gly Gly Ser Thr Tyr Tyr  
50 55 60

Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser  
65 70 75

Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp  
80 85 90

Thr Ala Val Tyr Tyr Cys Ala Arg Gly Arg Val Gly Tyr Ser Leu  
95 100 105

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
110 115

<210> 7

<211> 10

<212> PRT

<213> Mus musculus

<220>  
<221> unsure  
<222> 10  
<223> unknown amino acid

<400> 7  
Gly Phe Thr Phe Thr Asp Tyr Thr Met Xaa  
1 5 10

<210> 8  
<211> 17  
<212> PRT  
<213> Mus musculus

<400> 8  
Asp Val Asn Pro Asn Ser Gly Gly Ser Ile Tyr Asn Gln Arg Phe  
1 5 10 15

Lys Gly

<210> 9  
<211> 10  
<212> PRT  
<213> Mus musculus

<400> 9  
Asn Leu Gly Pro Ser Phe Tyr Phe Asp Tyr  
1 5 10

<210> 10  
<211> 11  
<212> PRT  
<213> Mus musculus

<400> 10  
Lys Ala Ser Gln Asp Val Ser Ile Gly Val Ala  
1 5 10

<210> 11  
<211> 7  
<212> PRT  
<213> Mus musculus

<220>  
<221> unsure  
<222> 5-7  
<223> unknown amino acid

<400> 11  
Ser Ala Ser Tyr Xaa Xaa Xaa  
1 5

<210> 12  
<211> 9

<212> PRT

<213> Mus musculus

<400> 12

Gln Gln Tyr Tyr Ile Tyr Pro Tyr Thr

1 5

<210> 13

<211> 645

<212> PRT

<213> human

<400> 13

Met Glu Leu Ala Ala Leu Cys Arg Trp Gly Leu Leu Leu Ala Leu  
1 5 10 15

Leu Pro Pro Gly Ala Ala Ser Thr Gln Val Cys Thr Gly Thr Asp  
20 25 30

Met Lys Leu Arg Leu Pro Ala Ser Pro Glu Thr His Leu Asp Met  
35 40 45

Leu Arg His Leu Tyr Gln Gly Cys Gln Val Val Gln Gly Asn Leu  
50 55 60

Glu Leu Thr Tyr Leu Pro Thr Asn Ala Ser Leu Ser Phe Leu Gln  
65 70 75

Asp Ile Gln Glu Val Gln Gly Tyr Val Leu Ile Ala His Asn Gln  
80 85 90

Val Arg Gln Val Pro Leu Gln Arg Leu Arg Ile Val Arg Gly Thr  
95 100 105

Gln Leu Phe Glu Asp Asn Tyr Ala Leu Ala Val Leu Asp Asn Gly  
110 115 120

Asp Pro Leu Asn Asn Thr Thr Pro Val Thr Gly Ala Ser Pro Gly  
125 130 135

Gly Leu Arg Glu Leu Gln Leu Arg Ser Leu Thr Glu Ile Leu Lys  
140 145 150

Gly Gly Val Leu Ile Gln Arg Asn Pro Gln Leu Cys Tyr Gln Asp  
155 160 165

Thr Ile Leu Trp Lys Asp Ile Phe His Lys Asn Asn Gln Leu Ala  
170 175 180

Leu Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys His Pro Cys  
185 190 195

Ser Pro Met Cys Lys Gly Ser Arg Cys Trp Gly Glu Ser Ser Glu  
200 205 210

Asp Cys Gln Ser Leu Thr Arg Thr Val Cys Ala Gly Gly Cys Ala	215	220	225
Arg Cys Lys Gly Pro Leu Pro Thr Asp Cys Cys His Glu Gln Cys	230	235	240
Ala Ala Gly Cys Thr Gly Pro Lys His Ser Asp Cys Leu Ala Cys	245	250	255
Leu His Phe Asn His Ser Gly Ile Cys Glu Leu His Cys Pro Ala	260	265	270
Leu Val Thr Tyr Asn Thr Asp Thr Phe Glu Ser Met Pro Asn Pro	275	280	285
Glu Gly Arg Tyr Thr Phe Gly Ala Ser Cys Val Thr Ala Cys Pro	290	295	300
Tyr Asn Tyr Leu Ser Thr Asp Val Gly Ser Cys Thr Leu Val Cys	305	310	315
Pro Leu His Asn Gln Glu Val Thr Ala Glu Asp Gly Thr Gln Arg	320	325	330
Cys Glu Lys Cys Ser Lys Pro Cys Ala Arg Val Cys Tyr Gly Leu	335	340	345
Gly Met Glu His Leu Arg Glu Val Arg Ala Val Thr Ser Ala Asn	350	355	360
Ile Gln Glu Phe Ala Gly Cys Lys Lys Ile Phe Gly Ser Leu Ala	365	370	375
Phe Leu Pro Glu Ser Phe Asp Gly Asp Pro Ala Ser Asn Thr Ala	380	385	390
Pro Leu Gln Pro Glu Gln Leu Gln Val Phe Glu Thr Leu Glu Glu	395	400	405
Ile Thr Gly Tyr Leu Tyr Ile Ser Ala Trp Pro Asp Ser Leu Pro	410	415	420
Asp Leu Ser Val Phe Gln Asn Leu Gln Val Ile Arg Gly Arg Ile	425	430	435
Leu His Asn Gly Ala Tyr Ser Leu Thr Leu Gln Gly Leu Gly Ile	440	445	450
Ser Trp Leu Gly Leu Arg Ser Leu Arg Glu Leu Gly Ser Gly Leu	455	460	465
Ala Leu Ile His His Asn Thr His Leu Cys Phe Val His Thr Val	470	475	480

Pro Trp Asp Gln Leu Phe Arg Asn Pro His Gln Ala Leu Leu His	485	490	495
Thr Ala Asn Arg Pro Glu Asp Glu Cys Val Gly Glu Gly Leu Ala	500	505	510
Cys His Gln Leu Cys Ala Arg Gly His Cys Trp Gly Pro Gly Pro	515	520	525
Thr Gln Cys Val Asn Cys Ser Gln Phe Leu Arg Gly Gln Glu Cys	530	535	540
Val Glu Glu Cys Arg Val Leu Gln Gly Leu Pro Arg Glu Tyr Val	545	550	555
Asn Ala Arg His Cys Leu Pro Cys His Pro Glu Cys Gln Pro Gln	560	565	570
Asn Gly Ser Val Thr Cys Phe Gly Pro Glu Ala Asp Gln Cys Val	575	580	585
Ala Cys Ala His Tyr Lys Asp Pro Pro Phe Cys Val Ala Arg Cys	590	595	600
Pro Ser Gly Val Lys Pro Asp Leu Ser Tyr Met Pro Ile Trp Lys	605	610	615
Phe Pro Asp Glu Glu Gly Ala Cys Gln Pro Cys Pro Ile Asn Cys	620	625	630
Thr His Ser Cys Val Asp Leu Asp Asp Lys Gly Cys Pro Ala Glu	635	640	645